


XX - STRUCTURES - SPAN POLES

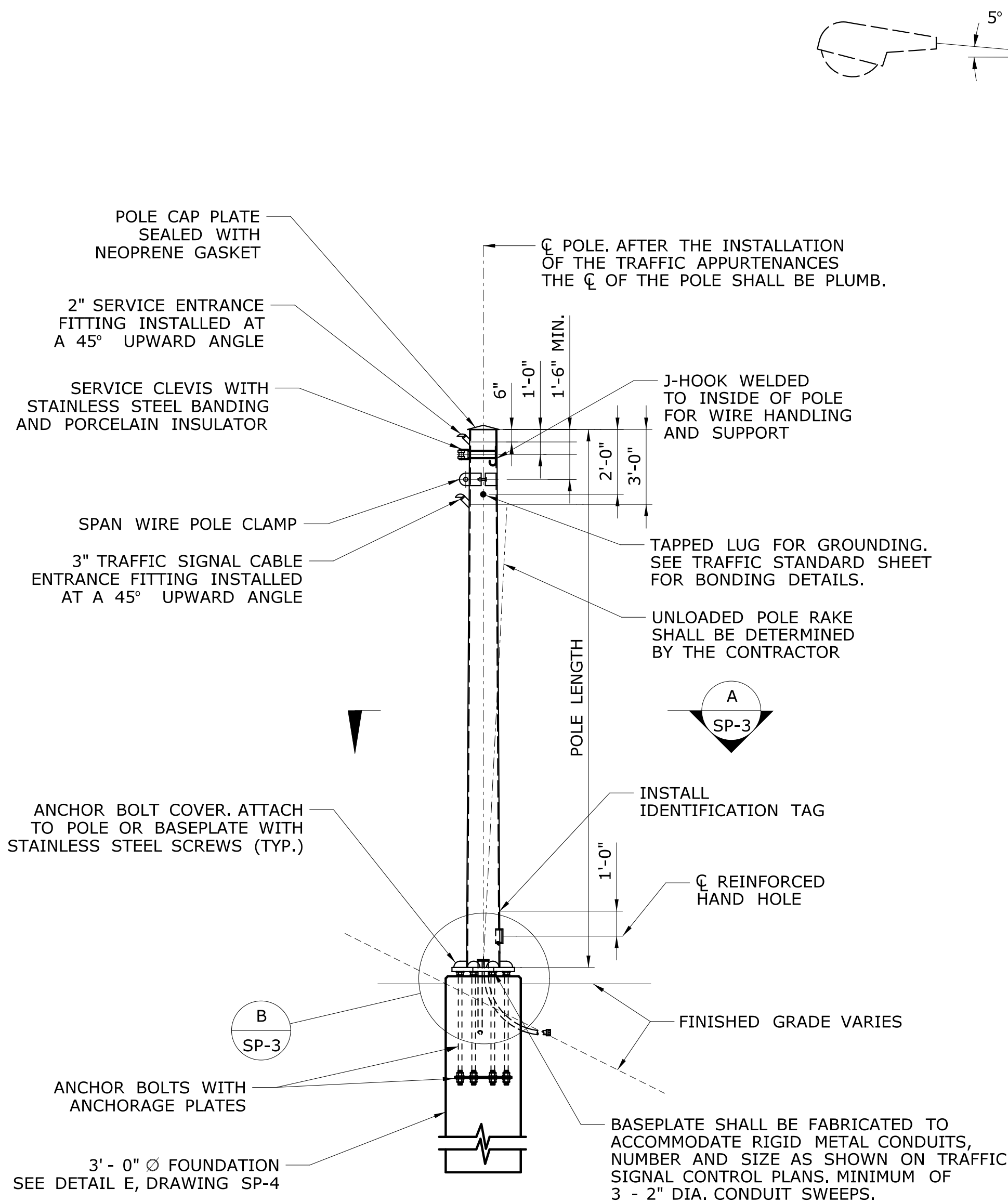
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE
SP-1	INDEX OF DRAWINGS
SP-2	STEEL SPAN POLE ELEVATION
SP-3	STEEL SPAN POLE DETAILS
SP-4	STEEL SPAN POLE FOUNDATION DETAILS

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

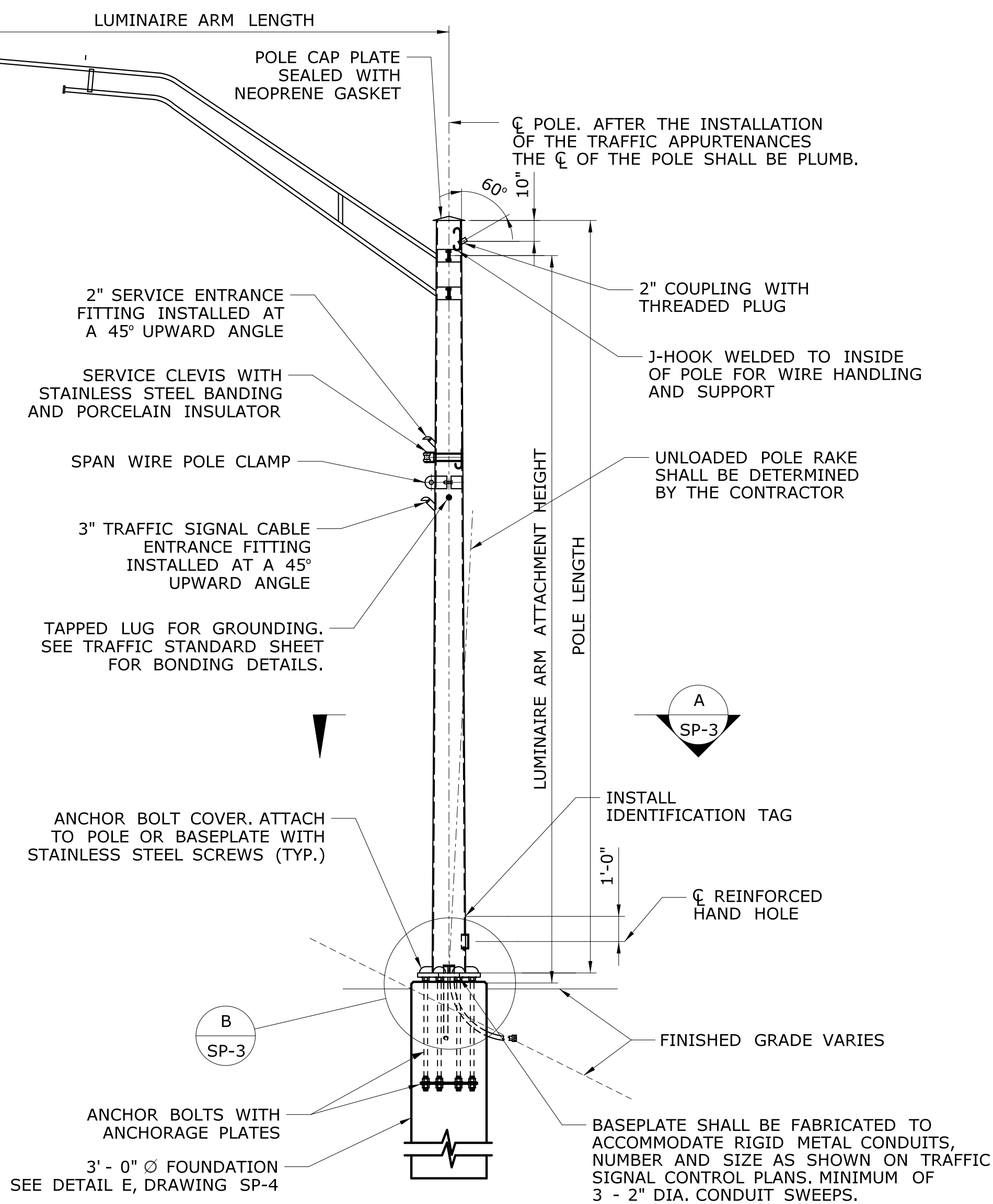
TRANSPORTATION PRINCIPAL ENGINEER

				<div>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</div>	DESIGNER/DRAFTER: -	<div><div>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</div><div>Filename: ...\\XXXXXXXXX_SB_IndexOfDrawings-SP1_2021-2-23.dgn</div></div>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: - -	TOWN: -	PROJECT NO. -
			CHECKED BY: -				DRAWING NO. SP-1			
			SCALE AS NOTED				SHEET NO.			
REV.	DATE	REVISION DESCRIPTION	SHEET NO.		Plotted Date: 3/1/2021					



ELEVATION - SPAN POLE

SCALE: 1/4" = 1'-0"



ELEVATION - COMBINATION SPAN POLE

SCALE: 1/4" = 1'-0"

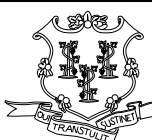
SPAN POLE NOTES

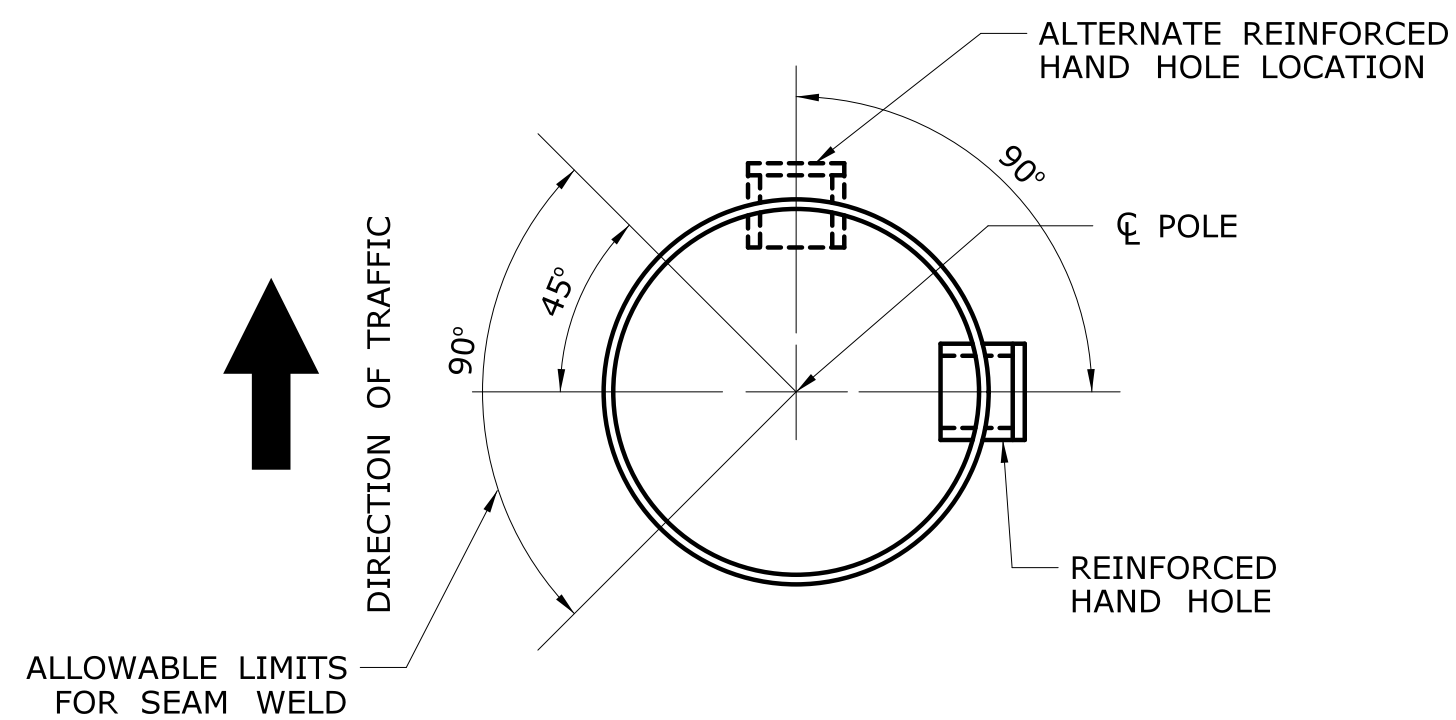
THE SPAN POLE CONFIGURATION, INCLUDING THE ANCHORAGE TO THE FOUNDATION, SHALL BE DESIGNED, FABRICATED AND INSTALLED BY THE CONTRACTOR, IN ACCORDANCE WITH THE SPECIAL PROVISION "XX STEEL SPAN POLE" OR "COMBINATION STEEL SPAN POLE". SPAN WIRE(S) SHALL BE DESIGNED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISION "SPAN WIRE".

THE SPAN WIRE CONFIGURATION, INCLUDING THE POLE HEIGHT, SPAN WIRE ORIENTATION, AND THE LOCATIONS OF TRAFFIC APPURTENANCES SUPPORTED BY THE STRUCTURE ARE SHOWN ON THE TRAFFIC CONTROL SIGNAL PLAN. PRIOR TO DESIGN OF EACH SPAN POLE CONFIGURATION, THE CONTRACTOR SHALL PREPARE A LAYOUT DRAWING BASED ON A FIELD SURVEY AND THE CONTRACT DOCUMENTS TO VERIFY THE SPAN POLES AND SPAN WIRES WHEN INSTALLED WILL MEET THE GEOMETRIC AND CLEARANCE REQUIREMENTS IN THE CONTRACT DOCUMENTS. IF THE REQUIREMENTS CANNOT BE MET, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

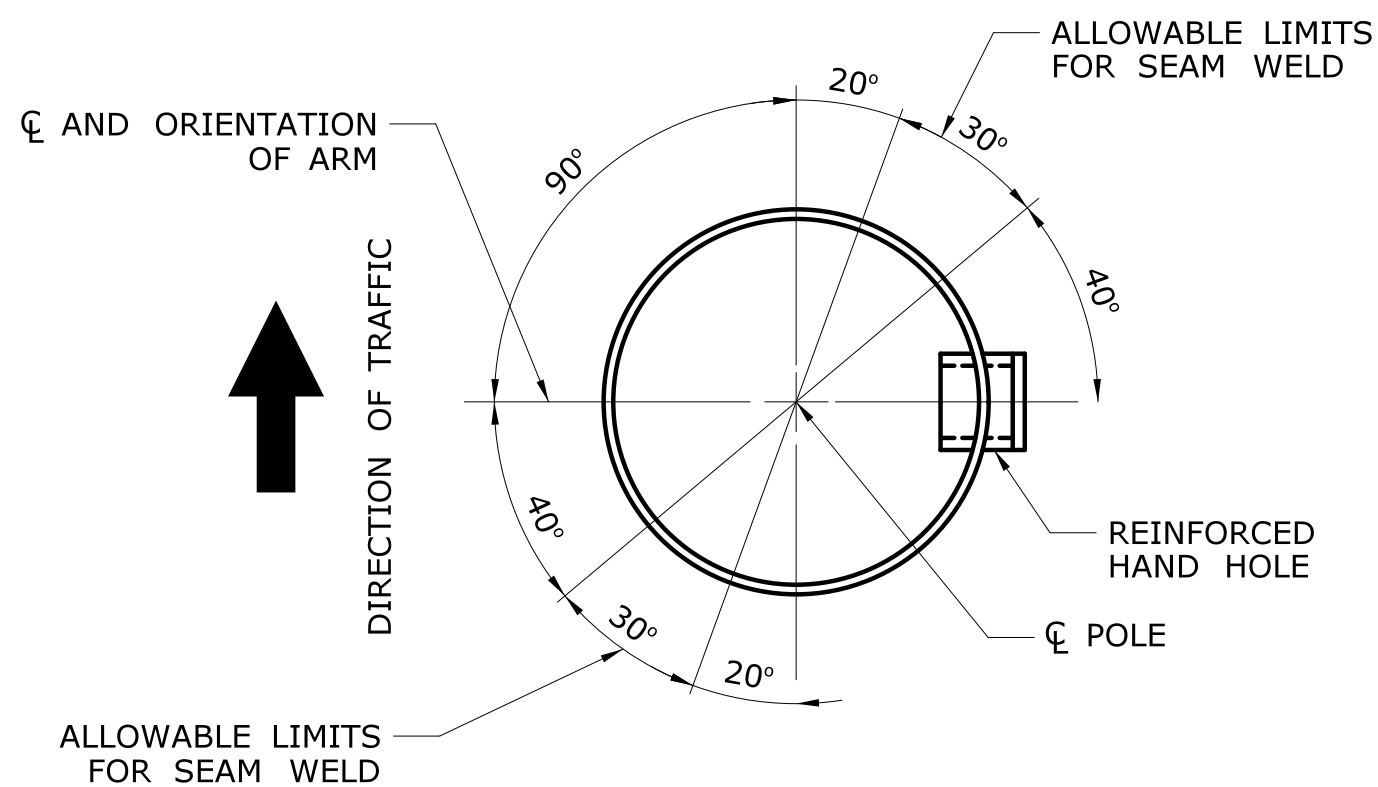
THE SPAN POLE CONFIGURATION SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, INCLUDING THE LATEST INTERIM SPECIFICATIONS, AS AMENDED BY THE SPECIAL PROVISION "XX STEEL SPAN POLE" OR "COMBINATION STEEL SPAN POLE".

THE SPAN POLE CONFIGURATION SHALL BE DESIGNED TO SUPPORT TRAFFIC APPURTENANCES WITH PROPERTIES NO LESS THAN THOSE SHOWN ON THE TRAFFIC PLANS.

				DESIGNER/DRAFTER: -		<div>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</div> <div>Filename: ...\\XXXXXXXXXX_SB_SpanPoleElev.SP2_2021-2-23.dgn</div>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY: -	PROJECT TITLE: -	TOWN: -	PROJECT NO. -					
				CHECKED BY: -											
				SCALE AS NOTED											
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/1/2021			DRAWING TITLE: STEEL SPAN POLE ELEVATION								
							SHEET NO. SP-2								

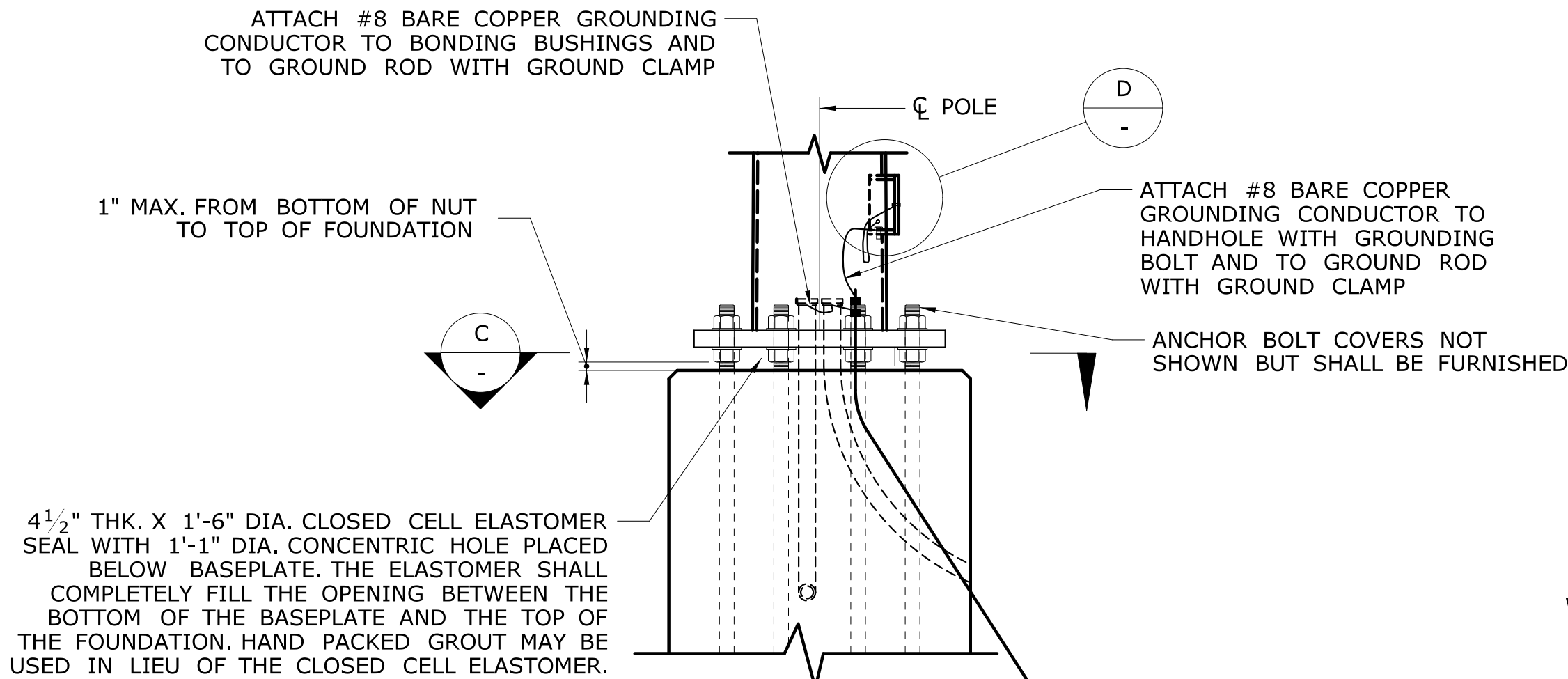


POLE WITH 1 SEAM WELD

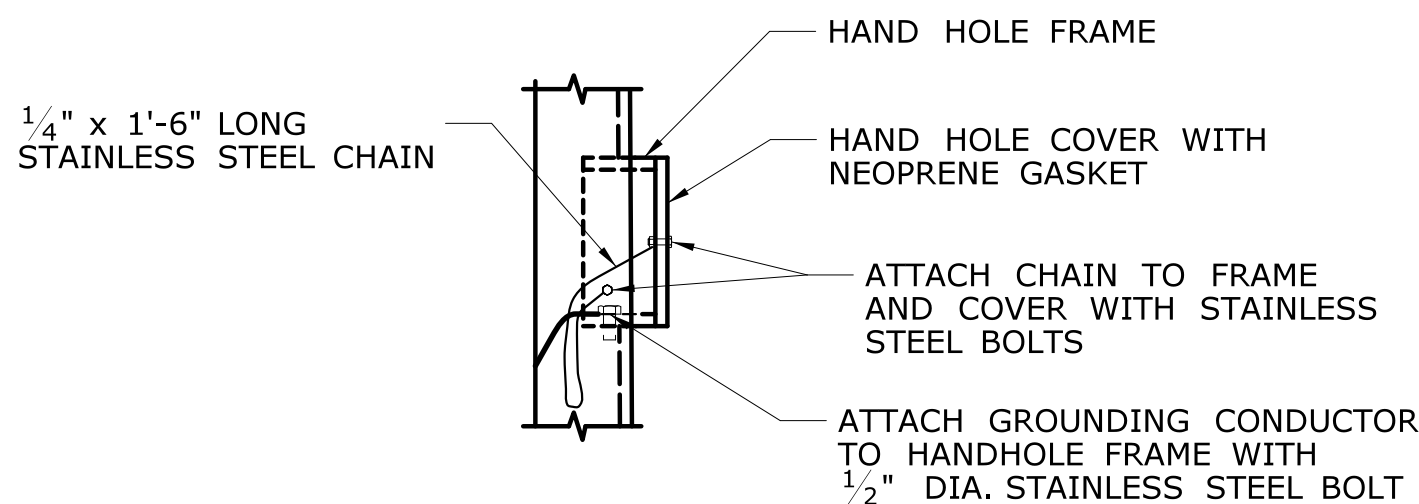


POLE WITH 2 SEAM WELDS

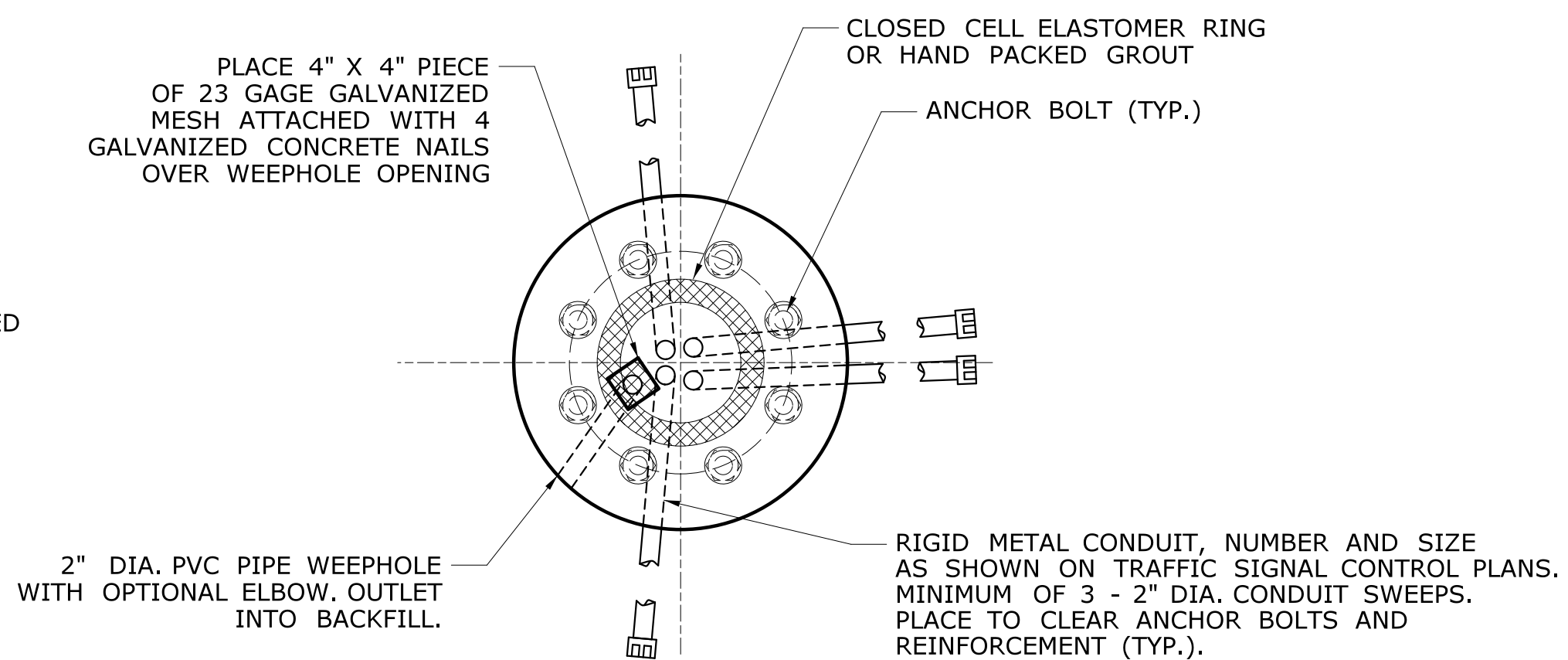
SECTION A
SCALE: 1 1/2" = 1'-0" **SP-2**



DETAIL B
SCALE: 3/4"=1'-0" **SP-2**



DETAIL D
SCALE: 1 1/2" = 1'-0" **-**

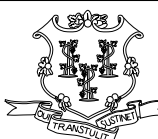


SECTION C
SCALE: 3/4"=1'-0" **-**

ATTACH TAG TO POLE AND ARM WITH SELF-TAPPING TAMPER RESISTANT STAINLESS STEEL SCREWS (TYP.)

• IDENTIFICATION NUMBER:
• MANUFACTURER:
• DATE OF MANUFACTURE: MM/YY
•

IDENTIFICATION TAG - N.T.S.

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FOUNDATION NOTES

THE DRILLED SHAFT FOUNDATION FOR THE SPAN POLE SHALL BE DESIGNED, FABRICATED, AND CONSTRUCTED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIAL PROVISION "TRAFFIC CONTROL FOUNDATION-SPAN POLE".

THE FOUNDATION SHALL BE DESIGNED FOR THE SOILS AND ROCK PROPERTIES BASED ON THE SUBSURFACE CONDITIONS (CHARACTER OF THE SOIL AND ROCK, PRESENCE OF GROUND WATER, ETC.) IN THE LOCATION OF, ADJACENT TO AND BELOW THE DRILLED SHAFT FOUNDATION EXCAVATION. THE NEED AND EXTENT OF ALL SUBSURFACE EXPLORATIONS AND INVESTIGATIONS SHALL BE DETERMINED BY THE CONTRACTOR.

THE DESIGN OF THE FOUNDATION SHALL BE COORDINATED WITH THE SPAN POLE AND THE SPAN POLE ANCHORAGE TO ENSURE THAT THE FOUNDATION IS ADEQUATE FOR THE SPAN POLE REACTIONS AND TO AVOID CONFLICTS BETWEEN THE EMBEDDED SPAN POLE ANCHORAGE AND THE FOUNDATION REINFORCEMENT.

THE CONCRETE FOR THE FOUNDATION SHALL CONFORM TO CLASS PCC04460. THE COMPRESSIVE STRENGTH, f'_c USED IN DESIGN OF THE FOUNDATION SHALL BE 4,000 PSI. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED FOUNDATION SHALL CONFORM TO THE REQUIREMENTS OF 6.01 - CONCRETE FOR STRUCTURES AND M.03 - PORTLAND CEMENT CONCRETE.

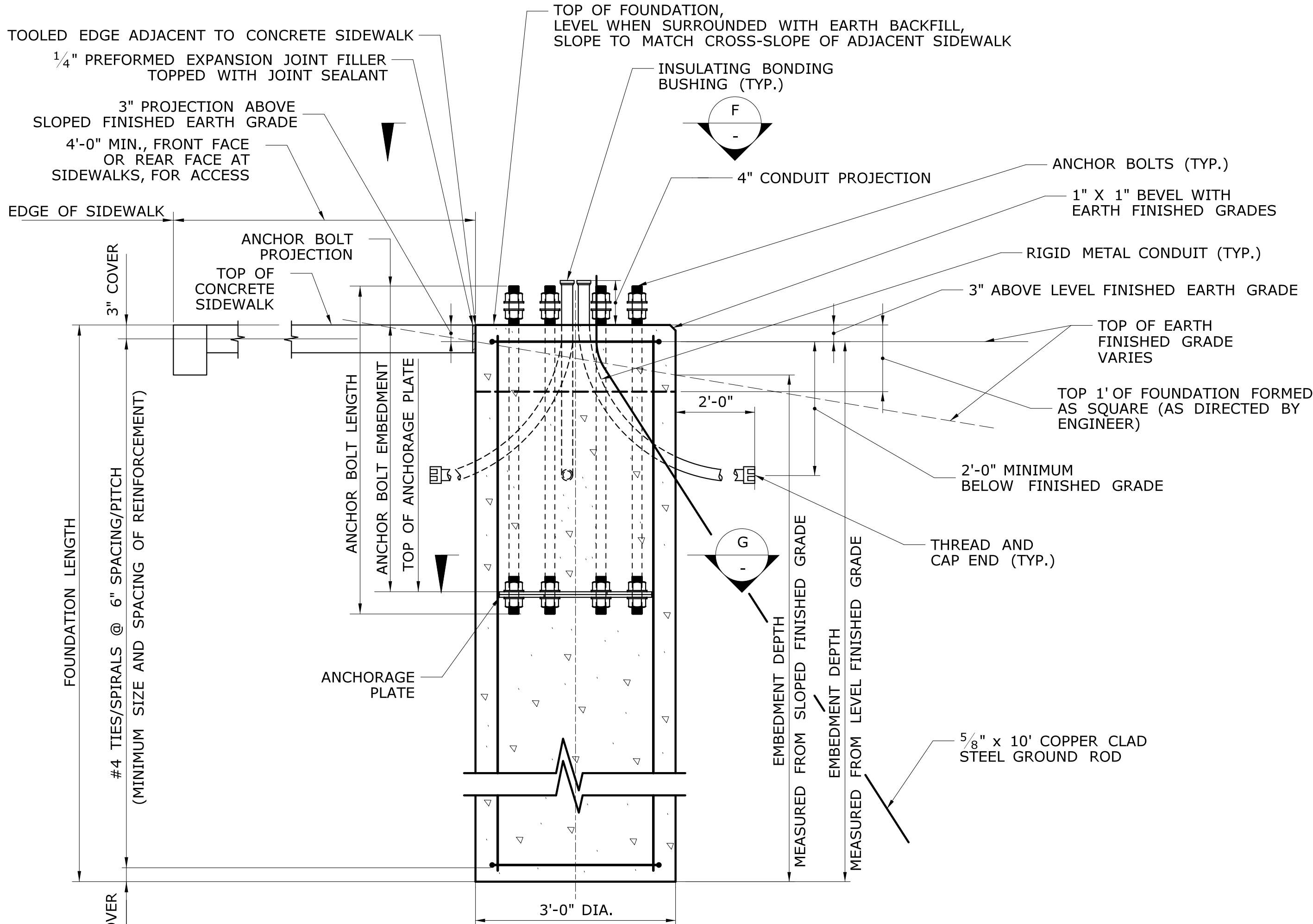
THE REINFORCEMENT SHALL BE UNCOATED AND CONFORM TO ASTM A615, GRADE 60. THE REINFORCEMENT SHALL BE ASSEMBLED WITH WIRE TIES. WELDING TO ASSEMBLE REINFORCEMENT IS NOT PERMITTED. ALL REINFORCEMENT SHALL HAVE 3" COVER, UNLESS OTHERWISE NOTED.

THE CONCRETE SHALL BE PLACED IN THE EXCAVATION AGAINST UNDISTURBED EARTH.

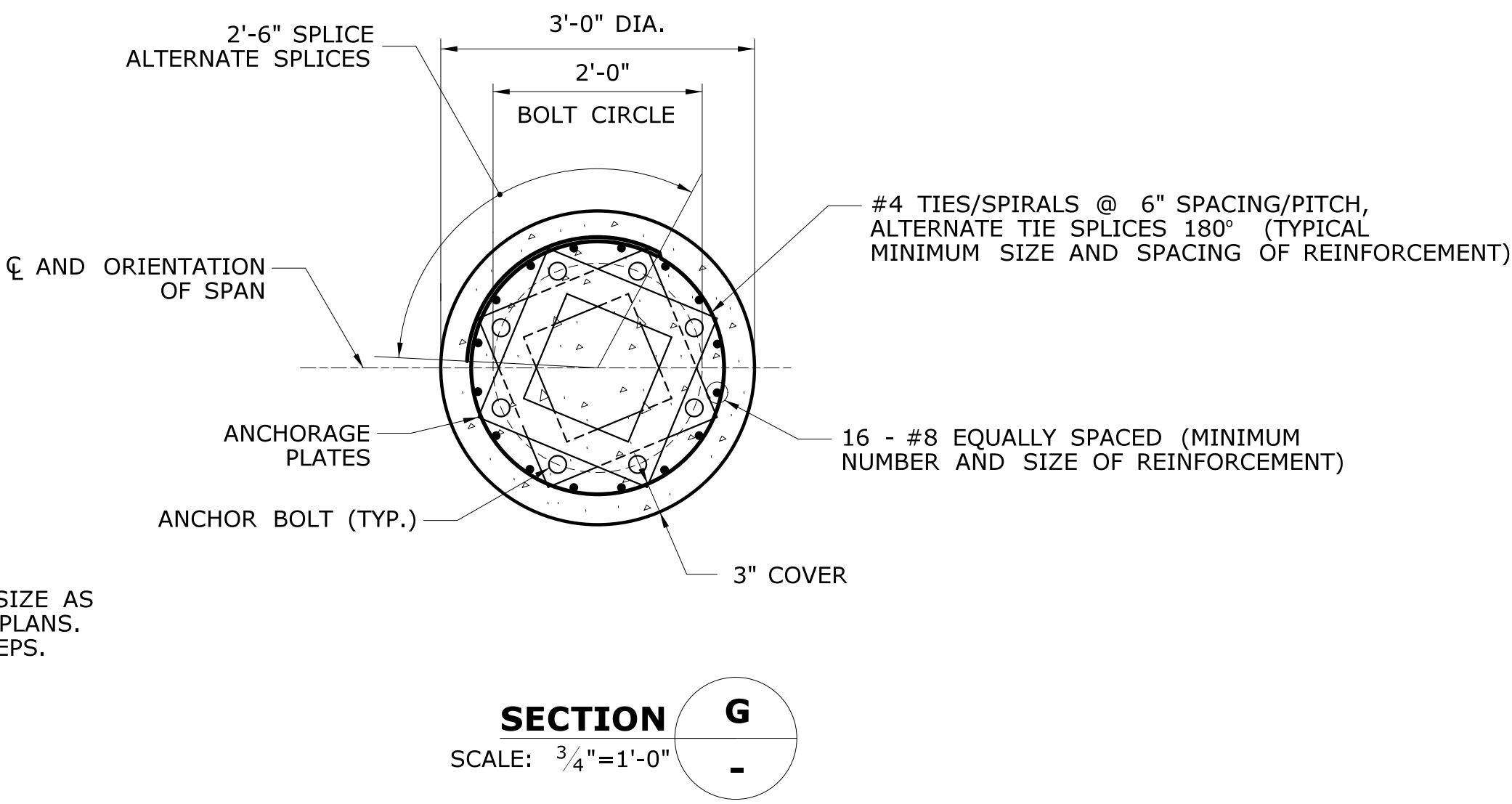
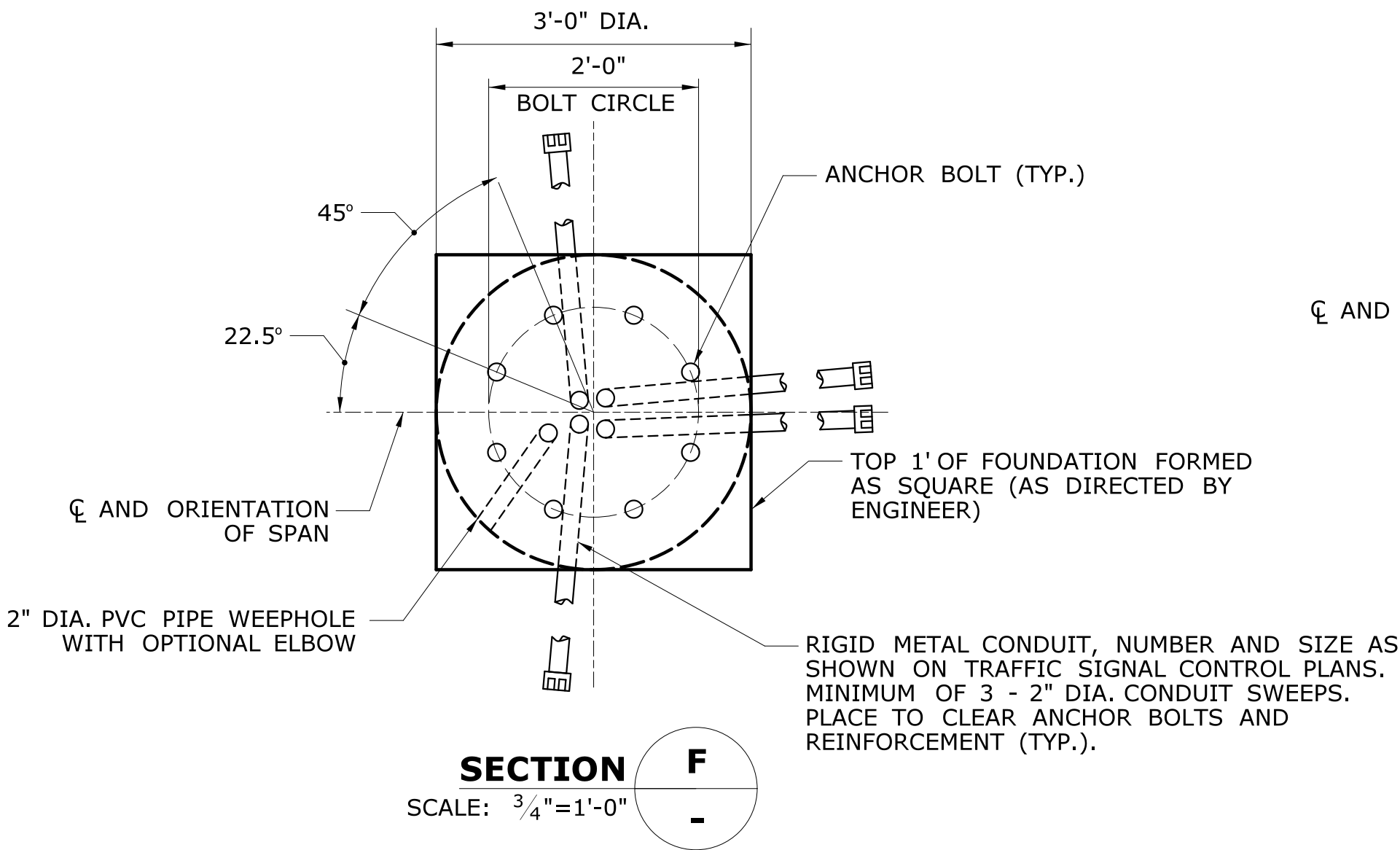
THE MAST ARM SHALL NOT BE ERECTED ON THE FOUNDATION UNTIL THE CONCRETE IN THE SHAFT HAS ATTAINED A COMPRESSIVE STRENGTH, f'_c , GREATER THAN OR EQUAL TO 4000 PSI.

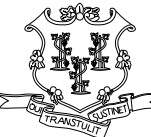
THE COST OF THE FOUNDATION, INCLUDING THE EXCAVATION, CONCRETE, REINFORCEMENT, AND PREFORMED EXPANSION JOINT FILLER, INCLUDING THE DESIGN AND FABRICATION, TO BE INCLUDED FOR PAYMENT UNDER THE ITEM "TRAFFIC CONTROL FOUNDATION-SPAN POLE".

WHERE AN EXISTING CONCRETE SLAB ABUTTING A FOUNDATION IS DAMAGED OR CUT DURING INSTALLATION, REPLACE THE ENTIRE SECTION.



DETAIL E
SCALE: 3/4"=1'-0"



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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/1/2021						STEEL SPAN POLE FOUNDATION DETAILS	